

Informative data for the offer of a micro hydroelectric plant

Please, fill in this form as accurately as possible, to enable us to give an exhaustive reply.

APPLICANT'S ADDRESS

Date _____

Tel. _____

1. CHARACTERISTICS OF THE SITE

§ Locality _____ Altitude meters _____

§ Dwelling type: Village Alpine grazing Forest house Refuge
Holiday house House Restaurant Other _____

Number of rooms _____ Number of people _____

§ Foreseen utilization period: months per year _____

§ Water availability:

Spring Brook Stream Other _____

§ Foreseen utilization of tail water:

None Other _____

2. LOADS TO BE POWERED

Remember that 1000 watts correspond to 1 kilowatt (kw). If the load power is unknown, please mention the equipment to be powered by the micro hydroelectric plant.

- Lighting no. of lamps _____ tot. power Watts _____
- Refrigerator Freezer Washing machine Television set
- Other household appliances Heating (non drinking water)
- Total or partial water heating for heating system
- Electric heating Other _____

3.a PENSTOCK (NOT YET EXISTING)

§ Head or height difference "H" most easily achievable meters _____
highest possible head meters _____

§ Minimum water flow or quantity of water "Q" litres/sec. _____
(measured at water intake during the plant utilization period)

§ Penstock length L meters _____
can it be put underground?: yes no partially

NOTICE: the micro hydroelectric power plant can be installed even far away from the utilisation point, either upstream or downstream of it.

3.b PENSTOCK (ALREADY EXISTING)

§ Maximum hydraulic power, obtainable following the instructions listed in the sheet "Tests to determine the hydraulic power obtainable from a penstock".

TABLE

H (kg.cm ² x 10)										
Q (litres/sec.)										
P _{hydraul.} (H x Q)										

or if the a.m. sheet has not filled in yet, please quote:

- max waterfall or head "H": metres _____
- flow or water quantity "Q": litres/sec. _____
(measured at penstock end)
- available flow at water intake: litres/sec. _____
- penstock: material _____
length "L" metres _____
external diameter mm. _____
internal diameter mm. _____
age _____

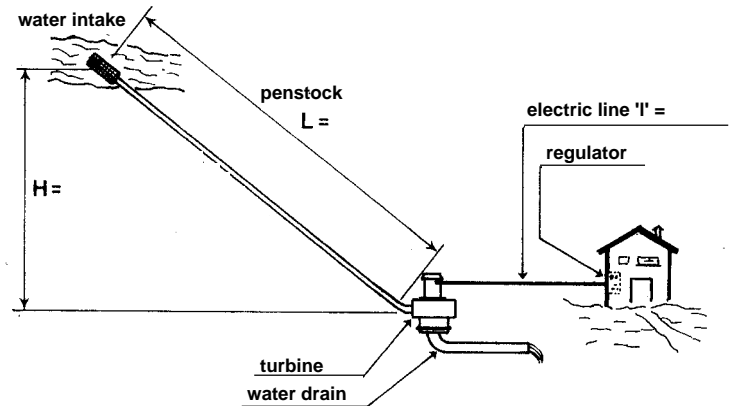
§ Possibility of replacing the existing penstock, if necessary: yes no

4. ELECTRIC LINE

§ Electric line from the turbine to the house: length "l" metres _____

5. PLANT DIAGRAM

Please, sketch on a separate sheet a drawing of the plant, according to this exemple.



6. DOCUMENTATION

Please, show the type of documentation you are interested in.

- Offer of a suitable Ecowatt plant, adding the necessary regulators for:
 - air heating
 - water heating
- Technical characteristics
- Advice about penstock material, diameter and resistance
- Cable sections for the electric line between turbine-generator group and regulator.

Please return the form duly filled in to:

IREM S.p.A.
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E-mail: irem@irem.it

We will send you, without any obligation from your side, the requested literature.